White Rabbit Workshop

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SBND Elec./DAQ Meeting

Sep. 26, 2016

When, What?

- Workshop: **The White Rabbit System for Future Neutrino Experiments**
- At **CERN, Oct. 4-7**
- See http://sbn-docdb.fnal.gov:8080/cgi-bin/ShowDocument?docid=1293 with workshop goals

Tentative Workshop Agenda

- **Tuesday Oct. 4 morning:**
  Hands-on lab to get a basic WR link working, with Greg Daniluk.
- **Tuesday Oct. 4 15:00-17:00:**
  Intro to WR and to the readout systems of the detectors + discussion with video-conference.
- **Wednesday Oct. 5 morning:**
  Data transfer with the streamers core, with Maciej Lipinski.
- **Wednesday Oct. 5 16:00-17:00:**
  Discussion with video-conference.
- **Thursday Oct. 6 morning:**
  A trigger distribution system using TDCs and fine delay generators, with Tomasz Wlostowski.
- **Thursday Oct. 6 16:00-17:00:**
  Discussion with video-conference.
- **Friday Oct. 7:**
  Reserve day.

In Preparation for Workshop

- We'd like to have a presentation on
  SBND Readout+DAQ system and preliminary timing/trigger distribution design
  (If you're attending in person and would like to give this talk, please let us know! We will also schedule a practice talk.)

- Additional documentation related to trigger/timing to share with CERN WR group ahead of workshop would be beneficial.

- Explicit request from WR Experts at CERN: It would […] be good for us to have as much understanding as possible about your system and needs, so any document or explanation you can send our way will be welcome.
  For example, you speak about the need to time stamp other clock signals with WR. Is there any possibility to actually derive those clock signals from WR? What are the characteristics and use of those clock signals and how are they generated today (or what is the plan to generate them)?

  Draft document at:
  https://docs.google.com/document/d/1T6RaWjizAyjfYChbC91_QR6_nlnJTr_j7O1_FITtp64/edit

  Please read, add, edit!